

Do not Enter

10/24/01

HN

PATENT Application for  
CALVIN WALKER  
for  
Location Specific Alarm Relay (L.S.A.R)

This Application claims the benefit  
of Provisional Patent Application

Ser# 60/118,978

Filed: 02/08/99

Pat. Pend. EJ4 77645136 US

### Background - Field of Invention

This invention relates to home detection devices, such as Smoke, Carbon Monoxide, radon detectors.

This invention specifically relates to the encoding, transmission, receiving and Audio output of DATA.

Location and type of Alarm.

004080-790260

## Background - Description of Prior Art

Hardware and electronic stores supply consumers with smoke/carbon monoxide/Radon detector that output a high frequency alarm and/or a flashing strobe light in response to the detected problem.

Professional Alarm Installation provides for the handwiring, of Alarm systems to central monitors.

where information such as type of Alarm, and Zone are displayed.

## Background - Disadvantages of Prior Art

- (a) Hardware And electronic stores supply detectors - but they do not transmit Data.
- (b) They don't provide Alarm/Voice output.
- (c) They do not specify a location or type of Alarm.
- (d) detectors do not monitor each other.
- (e) They contain ~~no~~ memory.

## Professional Alarm Installation

- (f) Provides only a general Alarm monitored At a central monitor

## Objects and Advantages

Accordingly, Several objects and Advantages of my Invention are . . .

- (a) Less cost than professional installed systems
- (b) Can be installed easily, no wiring.
- (c) Usable in locations where handwiring is not possible or practical.
- (d) ALTERNATING Voice / High frequency Alarm Provides greater Attention Value with less stress potential.
- (e) Notification of type and location of Alarm provided at each Alarm Station.

further objects and advantages are,  
less panic due to voice output with  
immediate location information

Other systems although they may be  
heard give no location

A disoriented person may panic and  
run in to a fire instead of away.

Also by relaying data throughout the system  
an alarm, which would not be heard because  
of its location i.e. "Garage or Basement"  
will now be received at each location.

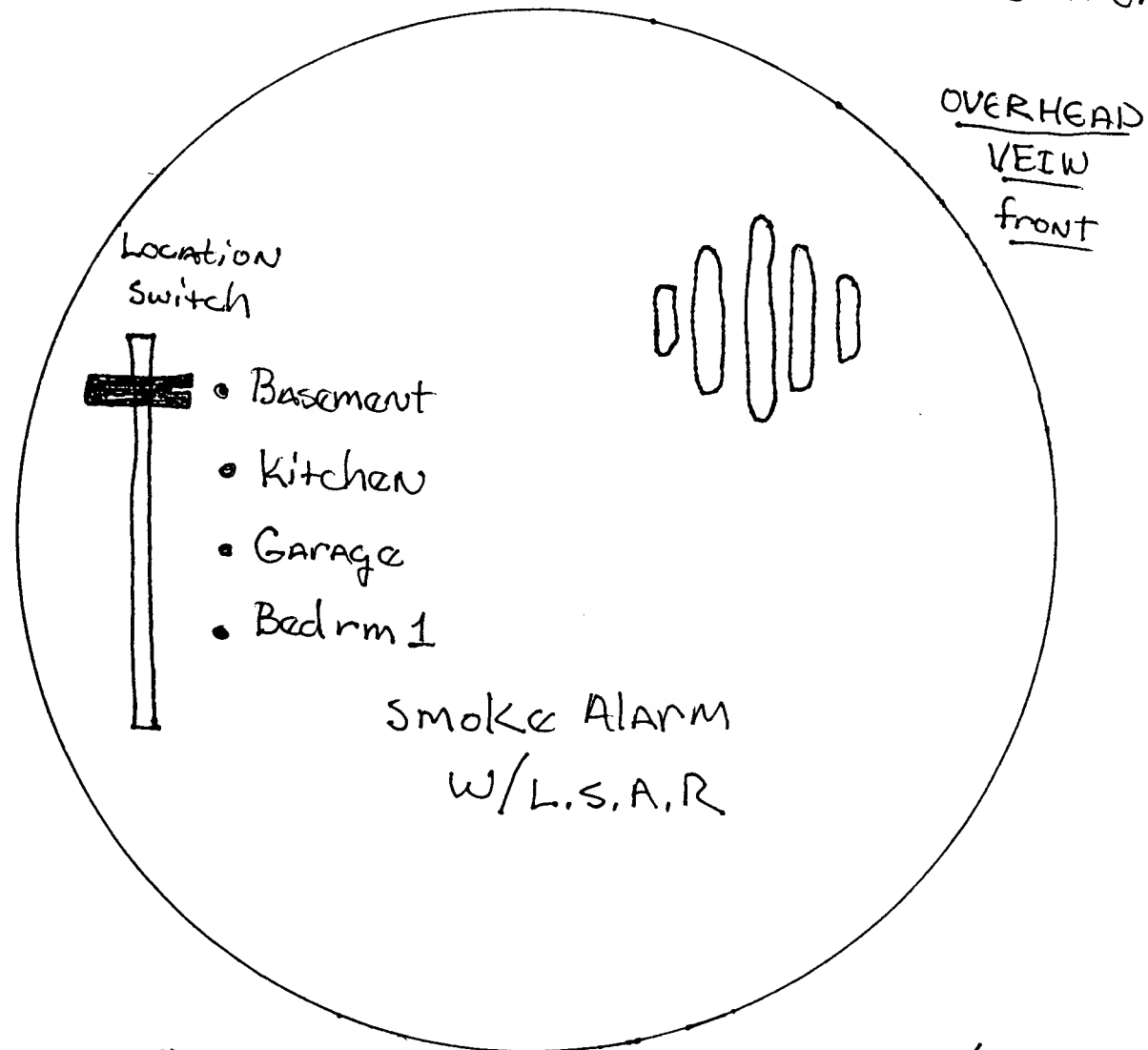
With the use of a "master monitor" for  
inside a bedroom location, the volume level  
of an alarm can be raised for the hearing  
impaired, or a strobe light can be added.

This system can easily be expanded, or  
rearranged as needed by the consumer  
or totally relocated at any time.

I.B.C)

## Location Specific Alarm Relay

"L.S.A.R" is an Information device  
it does NOT detect smoke or carbon monoxide.  
when completed it should look like a  
standard "Smoke Detector" except for  
the added "Location switch" on the front.

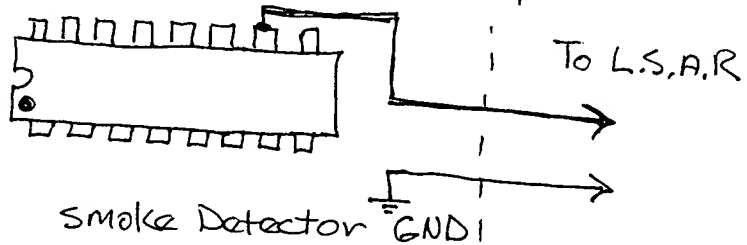


And "Communication Address port" on  
back, shown on NEXT Page.

The (L.S.A.R) Prototype system is connected to the smoke detector in only two places.

One is the 9volt Battery Ground to be used as a voltage reference and the other place is the #10 pin of the IC chip

(M) I87-35-05  
QXF9419



This Pin go's high +5v with the detection of smoke and cycles the Alarm.

OVER HEAD  
VIEW  
BACK

Each unit in System must be set to same Address.

1-11111111  
Communication Address  
Port

## Operation (L.S.A.R)

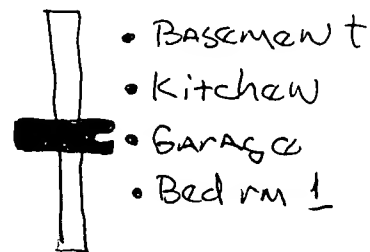
The L.S.A.R is self operational, after setting the communication address code 8-bits, on the back of each unit in the system to match.

You pick your location to install

Example "Garage" set location switch on front of detector to

Garage, Installation complete.

Repeat the setting of the Location Switch for each UNIT IN SYSTEM.



## Conclusion, Ramifications, and scope.

The advantages over existing systems are many for example, in the "Top of the line" hard wired home security systems, which cost a great deal more, a fire in the basement would cause all alarms to go off, and maybe a voice message at the keypad by the front door would give a general location, say ZONE Z, which is actually not a location but a type of alarm lets say smoke, now you no that one of the TEN smoke Detectors has detected a fire which way would you run.



In a fire, the first few minutes are the most important. A high frequency Alarm Alternating with a voice message, has the best chance of waking you sooner.

And when you do wake, the system provides All the information you need at each station

This system is the Evolution of the (Smoke/Carbon Monoxide/RADON) Detectors And will greatly enhance there ~~ability~~ to SAVE lives AND property.

Thus the scope of the invention should be determined by the appended claims and their legal equivalents, rather than the examples given.